

HISTORIC AMERICAN ENGINEERING RECORD

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PORTAGE CANAL

HAER WI-104

Waterway connecting the Fox & Wisconsin Rivers

Portage

Columbia County

Wisconsin

INDEX TO BLACK AND WHITE PHOTOGRAPHS

The following current views of Portage Canal were photographed by Douglas Bergren of The Studio, Polo, Illinois, and Tom Guschl, Rockford, Illinois, on November 14-18, 1997

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| WI-104-1 | Overview of the Portage Lock showing the west gates, and stone wing walls in middle ground. View faces east |
| WI-104-2 | Overview of the Portage Lock showing the west gates, and stone wing walls in middle ground. View faces east. Same view as HAER WI-104-1 with a scale |
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- WI-104-10 View at the west end of the Portage Lock showing the iron covers of the gate leveling turnbuckles to the left of the west gate and behind them a depression in the concrete which marks the former location of the tripod and tripod platform. View faces west
- WI-104-11 View of the north section of the east gates of the Portage Lock showing the probable remains of the second lock which stood to the east of the current or third lock at this site. View faces northwest
- WI-104-12 View of the top of the south section of the east gate of the Portage Lock showing the valve levers for the valves at the base of the gate. View faces north
- WI-104-13 View of the top of the south section of the east gates of the Portage Lock showing the valve levers for the valves at the base of the gate. View faces north. Same view as HAER WI-104-12 with a scale
- WI-104-14 View of the hinge assembly with wood quoin post along the south section of the east gate. View faces east
- WI-104-15 View of the canal from a footbridge looking toward the east gates of Portage Lock. View faces west
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- WI-104-18 Typical view of the canal looking toward a residential section of Portage taken from the Soo Line Railroad trestle near Center Street facing southwest
- WI-104-19 Typical view of the pilings which held the wood planking of the wood revetment along the sides of the canal. A segment of planking is barely visible above the water and is outlined by the ice. Additional pilings are visible on the opposite or southeast side of the canal. View faces northeast
- WI-104-20 A second typical view of the pilings along both sides of the canal. A plank is visible to the left of the piling nearest the lower right corner of the photograph. View faces northeast
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- WI-104-22 View of remains of the Fort Winnebago Lock taken from the northwest bank of the canal looking southeast. The recent footbridge crosses the west gates. The bridge rests on the lock walls

- WI-104-23 View of the remains of the Fort Winnebago Lock taken from the northwest bank of the canal looking southeast. This view shows the lock walls under the bridge and the remains of the wing walls to the southwest
- WI-104-24 View of the entrance to the canal from the Fox River. The Fort Winnebago Lock stretches northeast from the footbridge visible in the middle ground of the photograph. View faces southwest
- WI-104-25 View of the remains of the Fort Winnebago Lock. The lock stretches from middle ground to the footbridge. View faces south-southwest
- WI-104-26 View of the west end of the Fort Winnebago Lock including the stone lock walls, the base of the gate just visible under the bridge, and beyond, the rock piled into the lock to form part of the waste weir structure. The wood dock at the lower left is a recent structure for portaging canoes. View faces south-southwest
- WI-104-27 View of the west end of the Fort Winnebago Lock including the stone lock walls, the base of the gate just visible under the bridge, and beyond, the rock piled into the lock to form part of the waste weir structure. The wood dock at the lower left is a recent structure for portaging canoes. View faces south-southwest. Same view as HAER WI-104-27 with a scale
- WI-104-28 Detail view of the remains of the base of the west gate of the Fort Winnebago Lock taken from the footbridge. View faces southwest
- WI-104-29 Typical view of the remains of the stone side wall of the Fort Winnebago Lock along the northwest side of the canal. The wall fragment is located at the northeast end of the lock. View faces west
- WI-104-30 Typical view of gate leveling turnbuckles taken at the Appleton Lock Number One west of Lake Street on Lower Fox River. The iron covers are lifted aside toward the center of the two turnbuckles. The gate opening gear assembly is visible in the background. View faces west
- WI-104-31 Typical view of the gate opening gear assembly with the spar at the base of the assembly connecting to the gate. When the gate is open, the spar is moved back and exits through the rear of the tripod platform. View is taken at Appleton Lock Number One west of Lake Street on the Lower Fox River. View faces northeast
- WI-104-32 Typical view of the gate opening gear assembly with the spar at the base of the assembly connecting to the gate. When gate is open, the spar is moved back and exits through the rear of the tripod platform. View is taken at Appleton Lock Number One west of Lake Street on the Lower Fox River. View faces northeast. Same view as HAER WI-104-31 with a scale

The following plans and maps are photographic copies of manuscript collections in tubes 56-204, 71-204, and 72-205, Project and Maintenance Drawings produced by the U.S. Army Corps of Engineers, Milwaukee District, in Record Group 77, National Archives and Records Center, Chicago, except where noted (cited as U.S. Army Corps of Engineers, Chicago District, n.d., 1873-1928). Douglas Bergren of The Studio, Polo, Illinois, and Tom Guschl, Rockford, Illinois, completed the photographic copies in March 1998.

- WI-104-33 [MAP OF THE] CITY OF PORTAGE, COLUMBIA COUNTY DRAWN BY GENERAL ENGINEERING COMPANY, INC., PORTAGE IN 1925 (GENERAL ENGINEERING COMPANY, 1926). THE MAP IS ARCHIVED BY THE GENERAL ENGINEERING COMPANY, INC., 412 EAST SLIFER STREET, PORTAGE, WISCONSIN. The map shows the location of the Portage Canal in relation to the City of Portage and the Fox and Wisconsin Rivers. The general location of the Portage and Fort Winnebago Locks is noted
- WI-104-34 DRAWING ENTITLED THE REVETMENT FOR THE PORTAGE CANAL. THE PLAN WAS ORIGINALLY PREPARED IN 1876 AND REDRAWN IN MARCH 1928. File No. 13-H-7A, Tube 72/204
- WI-104-35 Map entitled: PORTAGE LOCK, SOUNDING TAKEN UNDER DIRECTION OF LIEUT. COL. H.M. TRIPPE, DIST. ENGR., BY O.S. SKRUKRUD, ASST. ENGR., J.M. HODGES, INSP., MAY 28-31, 1936. DRAWN BY W.K. MEANS AND J.W. BEARDSLEY. The map shows the physical context of the Portage Lock and its location as well as the Portage Levee traveling south from the lock along the east bank of the Wisconsin River. File No. 4-N-28.1, Tube 56/204
- WI-104-36 Drawing Set: PORTAGE LOCK, LOCATION AND SITE, FOX RIVER IMPROVEMENT, WIS., 1 OF 5 SHEETS. SUBMITTED BY E.M. NISEN, ASSISTANT ENGINEER, MAY 22, 1926. File No. 4-N-28, Tube 56/204
- WI-104-37 Drawing Set: PORTAGE LOCK, GENERAL PLANS, FOX RIVER IMPROVEMENT, WIS., 2 OF 5 SHEETS. SUBMITTED BY E.M. NISEN, ASSISTANT ENGINEER, 1926. File No. 4-N-28, Tube 56/204
- WI-104-38 Drawing Set: PORTAGE LOCK, DETAILS OF LOCK GATE, FOX RIVER IMPROVEMENT, WIS., 3 OF 5 SHEETS. SUBMITTED BY E.M. NISEN, ASSISTANT ENGINEER, JUNE 1926. File No. 4-N-28, Tube 56/204
- WI-104-39 Drawing Set: PORTAGE LOCK, DETAILS OF MITER SILL, SNUBBING POST, AND STEEL PLATES, FOX RIVER IMPROVEMENT, WIS., 4 OF 5 SHEETS. SUBMITTED BY E.M. NISEN, ASSISTANT ENGINEER, MAY 1926. File No. 4-N-28, Tube 56/204

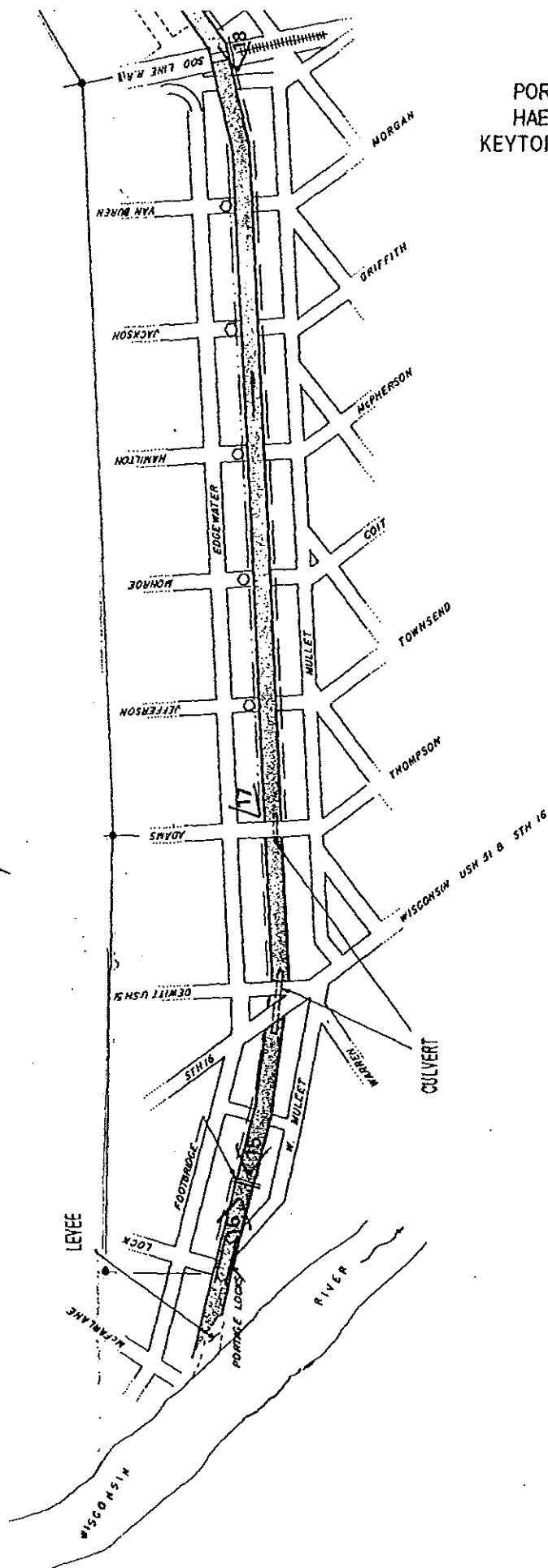
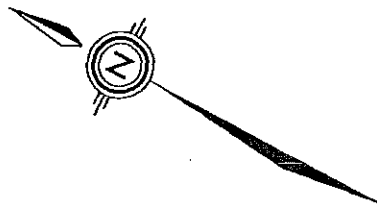
- WI-104-40 Drawing Set: PORTAGE LOCK, DETAILS OF OPERATING MECHANISM FOR LOCK GATES, FOX RIVER IMPROVEMENT, WIS., 5 OF 5 SHEETS. SUBLITTED BY E.M. NISEN, ASSISTANT ENGINEER, JUNE 1926. File No. 4-N-28, Tube 56/204
- WI-104-41 Map Entitled: PORTAGE CANAL, SOUNDING TAKEN UNDER DIRECTION OF LIEUT. COL. H.M. TRIPPE, DIST. ENGR., BY O.S. SKRUKRUD, ASST. ENGR., J.M. HODGES, INSP., MAY 28-31, 1934, FORT WINNEBAGO LOCK. DRAWN BY W.K. MEANS AND J.W. BEARDSLEY. The map shows the physical context weir exiting from the south side of the canal into the Fox River and the Agency House and outbuilding north of the canal. File No. 4-N-28, Tube 56/204
- WI-104-42 Drawing: FORT WINNEBAGO LOCK, FOX RIVER, WISCONSIN. The drawing shows the lock in plan, elevation, and section. Although this plan is undated, it most probably replaced an earlier rendering of the lock dating 1890 drawn just prior to the rebuilding of the structure. File No. 13-G-8, Tube 72/204
- WI-104-43 An undated detail: PLAN OF GATE, FORT WINNEBAGO LOCK. The plan shows the flooring, miter sill, and quoin post. The detail is probably relatively accurate for the 1890 lock. File No. 13-G-6, Tube 72/204
- WI-104-44 An undated detail: PLAN OF PIN AND SOCKET FOR UPPER GAUGE, FORT WINNEBAGO LOCK. File No. 13-G-4, Tube 72/204
- WI-104-45 An undated detail: FOX RIVER IMPROVEMENT DETAILS OF PIN AND SOCKETS FOR TOP OF QUOIN POSTS, WINNEBAGO LOCK. File No. 13-G-3, Tube 72/204

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Figure b:
West end,
Portage Canal:
WI-104-15-18.
Approximate Scale:
1" = 660'

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Figure c:
East end,
Portage Canal:
WI-104-19-21.
Approximate Scale:
1" = 660'

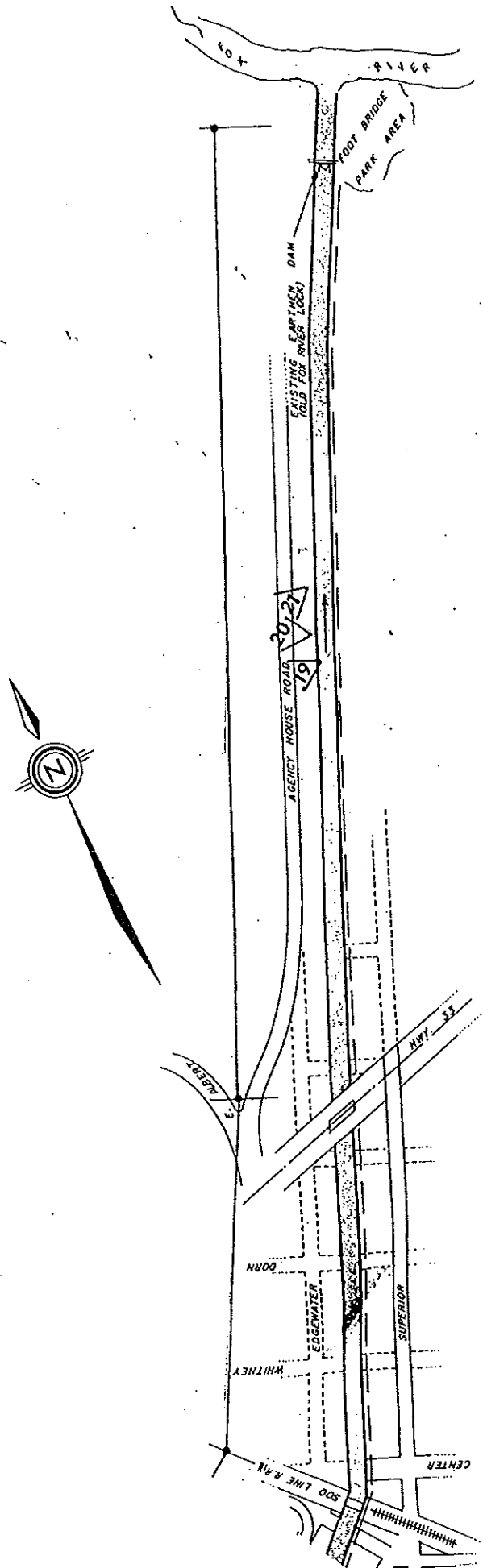


Figure d: Ft. Winnebago Lock:
WI-104-22-29.
Approximate Scale: 1" = 100'

